

## ABSTRACT

Howling, which occurs when amplifying a target sound collected by a first microphone through an amplification section and outputting the amplified sound as an intensified sound from a loudspeaker, is suppressed. A first power spectrum is produced according to a first acoustic signal output from the first microphone collecting a sound. A second power spectrum is produced according to a second acoustic signal of a sound including at least the intensified sound and not including the target sound. Then, the first acoustic signal is filtered based on the first power spectrum and the second power spectrum to output only an acoustic signal of the target sound to the amplification section.